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Датчики и трансмиттеры поплавковые серии IMN TBM INOX

TECFLUID

Magnetic float level controller
IMN TBM INOX Series

The IMN TBM series are level controllers for liquids with magnetic actuation of Reed contacts positioned inside a sealed tube and actuated by the magnetic field of the float.

Benefits

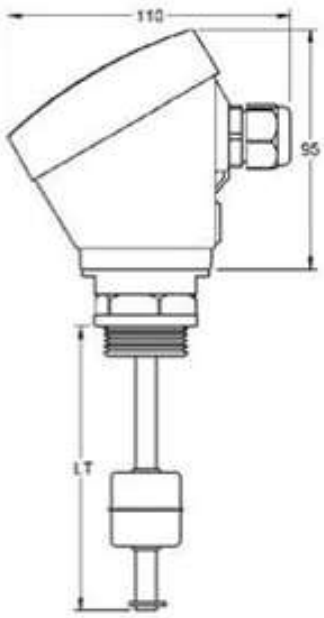
-Simple, reliable and economical system
-Mini model in INOX-316
-For density liquids - to 0.71
-350° rotatable IP67 housing

Apps

For the detection of one or more liquid level points, maximum 4 points.
Used for filling commands, emptying, minimum and maximum alarms, etc.

-Water treatment
-Pumping stations
-Industrial process control
-Control of auxiliary tanks for food, textile, chemical machinery, etc.
-Level control for dosing

Dimensions



Functioning

I**VS**e**oh**s**rp**vs**s**IMN magnetic level controllers are based on the switching of Reed contacts located inside a guide tube, and activated by a permanent magnet incorporated in the float and which follows the liquid level variations.
They are custom made to suit the different needs of the installation conditions.

connecting pipe

Guide tube: BSP INOX-316 (1.4401) (- 8 mm) Length:
50 ... 3500 mm
Temperature: - 40 ... +125 °C
Mounting position: vertical, +/-15°

Float

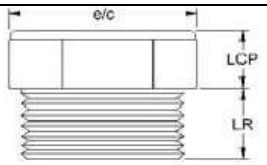
Model	**FCI601M09**
Materials	STAINLESS STEEL AISI316L (1.4404)
Dimension	-29x32
Pressure	15 Kg/cm2
Density	e>0.71 g/cm3
FS/FH (mm)	9.3/22.7mm
	

350° rotatable IP 67 box

Housing

Electrical connection: PBT connection box 64x95x110 mm
Protection: IP67
Temperature (Ta): - 20... +80 °C Cable
gland: M20 x 1.5 PA (IP68)
-Cable: 6..12mm

Process connection fitting

Thread	**1" G**	**1"1/4G**
Materials	STAINLESS STEEL AISI316 (1.4401)	
t/c (mm)	32	45
LR (mm)	16	17
LCP (mm)	15	
It is advised that the float be narrower than the width of the thread		

contacts

Number of contacts: 1 to 4
Type: NO: 40 WVA / 230 VAC-2A
NC-NA/NC: 20 WVA / 150 VAC-1A
Distance between contacts: > 40 mm

Protection

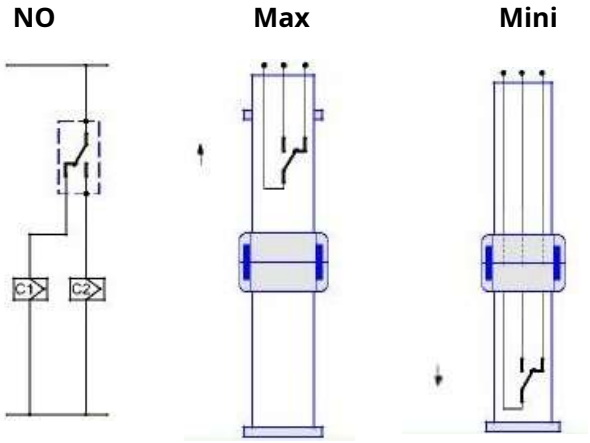
Standard: Execution without interior filling. Suitable for most applications.
Protection: Against the effects of condensation, In installations where there are significant differences in temperature.
Encapsulated: Filling with a sealing epoxy resin.

How to determine probe parameters

Determine the total length according to the characteristics of the tank and the liquid level points to be controlled.

Depending on the needs of the installation, determine the number, position and type of reed contacts.

contacts: To define the type of contact (NO, NC, NONF), this is done without the presence of the float. For example, if you want the contact to open at the lower end of the probe when the tank is empty, you need an NC contact for this position.



Actuation direction (↑ ↓): Define the direction of actuation of the float (when filling or emptying) allows more precise adjustment of the position of the contacts in relation to the desired operating point.

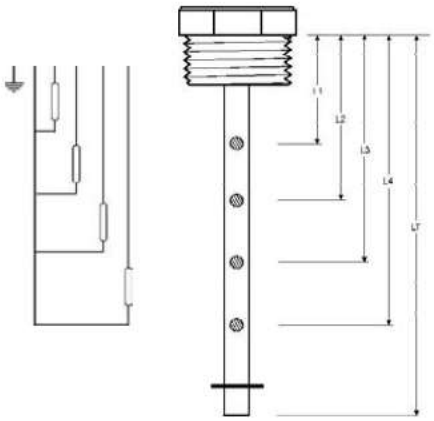
Electrical connection: If not defined specifically, a connection will be common to all the contacts and an active connection for each of them, according to the lower diagram.

Additional floats: The probe is fitted by default with a single float with a lower stop and, if required, an upper stop. You can request as many additional floats as necessary contacts.

Working conditions: Do not forget to check that the pressure, temperature and density conditions of the installation correspond to those of the proposed probe model.

You can use this document to define the sensor data and attach it if necessary to your order.

Specify in mm the total length of the probe. Specify in mm the position of each of the contacts used in your application.
Mark with an "X" the type of direction of action of each contact.
In the reference composition table, check the appropriate boxes for the chosen characteristics.

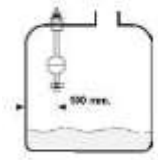


Electronic connection elementary

	mm	NO	NC	NO	⬆	⬇	stopper
L1							
L2							
L3							
L4							
LT							

Reference	Version	process	Float	Long. total	Number of contacts	Number of floats
IMN TBM INOX	**V1**Standard **V2**Protected **V3**Encapsulated	**P06**1"G **P07**1"1/4G	F13 FCI601M09	50..3500mm	**C1**1 contact **C2**2 contacts **C3** 3 contacts **C4**4 contacts	**N1**1 float **N2**2 floats **N3**3 floats

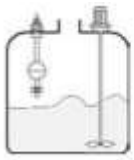
Installation tips



If the tank has walls metal, the probe must to be distant walls of water less than 100mm.

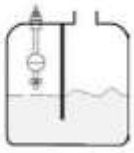
The inclination maximum must be ± 15 °

Installation in areas with turbulence



Place the sensor the further possible areas of turbulence.

Tube tranquilizer. protect him shift of the float in presence of turbulence.



Partition of separation

Relay PSIA, DSIA: Control differential max levels And min. with delay.

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